

Claims

What is claimed is:

- 1 1. A device for inserting sound segments into a voice channel carrying a voice stream of a
2 voice transmission communication device, comprising
3 a trigger configured to select the sound segment for insertion into the voice channel; and
4 a mixer configured to couple with the audio channel, to receive the selected sound
5 segment and to inject the selected sound segment into the voice channel, the voice
6 channel contemporaneously carrying the selected sound segment and voice stream
7 as a single output stream.
- 1 2. The device of claim 1, further comprising a sound encoder configured to receive the
2 sound segment from a source external to the device.
- 1 3. The device of claim 2, wherein the sound segment comprises a file format comprising
2 one from a group consisting of an MP3 file format, a WAVE file format, and an audio
3 video interleave file format.
- 1 4. The device of claim 1, further comprising a communications device interface for
2 coupling with a communication device.
- 1 5. A method for inserting audio data within a voice channel of a voice transmission
2 communication device, the method comprising:
3 selecting the sound segment to be played within the voice channel, the voice channel
4 carrying voice data;
5 injecting the sound segment into the voice channel through mixing of the sound segment
6 with the voice data to generate a mixed sound segment and voice data stream; and

7 outputting the mixed sound segment and voice data stream as a single output stream into
8 the voice channel.

1 6. The method of claim 5, further comprising receiving the sound segment from an external
2 audio source.

1 7. The method of claim 5, further comprising saving the sound segment in an audio file
2 format.

1 8. The method of claim 7, wherein the audio file format comprises one from a group
2 consisting of an MP3 file format, a WAVE file format, and an audio video interleave file
3 format.

1 9. A system for inserting audio data within a voice channel, comprising:
2 a means for selecting the audio data to be played within the voice channel, the voice
3 channel carrying voice data;
4 a means for injecting the audio data into the voice channel through mixing of the audio
5 data with the voice data to generate a mixed audio data and voice data stream; and
6 a means for outputting the mixed audio data and voice data stream into the voice channel.

1 10. The system of claim 9, further comprising a means for receiving the audio data from an
2 external audio source.

1 11. The system of claim 9, further comprising a means for saving the audio data in an audio
2 file format.

1 12. The system of claim 11, wherein the audio file format comprises one from a group
2 consisting of an MP3 file format, a WAVE file format, and an audio video interleave file
3 format.

1 13. A method of combining sound segments into an established voice channel, comprising:
2 establishing a voice channel for transmission of voice communications between a first
3 device and a second device;
4 selecting through the first device a sound segment for insertion on the voice channel;
5 mixing the sound segment with the voice communications to produce a mixed signal for
6 transmission along the voice channel; and
7 outputting the mixed signal along the voice channel for reception at the second device.

1 14. The method of claim 13, further comprising receiving sound segments from in an audio
2 data format from an external source for storage.

1 15. The method of claim 14, further comprising storing the sound segments in a non-volatile
2 storage device.

1 16. The method of claim 13, wherein the step of selecting further comprises triggering a
2 switch for the selection of a sound segment.